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(54) Title: GENE EXPRESSION AND POLYMORPHISMS ASSOCIATED WITH LUNG CANCER

Human LAS1 protein sequence

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MSGSKKKKVTKAERLKLQEEEEERLKEEEEARLKYEKEEMERL      44
EIQRIEKEKWHRLKADLERNEELEELYLLERCFPEAEKQETKLLSQWKHYIQCD 102
GSPDPSVAQEMNTFISLWKEKTNETFEEVIEKSKVVLNLEKLFILLETTPCDLQDK 160
NIIQYQESILQLQELLHLKFGVATEILLKQASTLADLDSGNMEKVIKDNVTLYVWAN 218
LKKNPRHRSVRFSSETQIGFEIPRILATSDIAVRLHLYDHYDHSALHPVSTPSKEYTSA 276
VTELVKDDVKNVEKAISKEVEEESKQQERGSHLIQEEEEKVEEQGDIEVKMSSAE 334
SEAIKCEREMKVLSETVSAQQLLVNSSEKPDFFEDNVVDLCQFTTLGGVYHLDILE 392
LPPQCKPVKGWMIVEILKEGLQKYTPPETTEEFETENAFPIEVTLEVHENVIFED 450
PVVVRWDAEGKHWRTDGISNVSYKPKERLVTFSLDTFGPVTLIQDAHINMPYQSWELR 508
PLDVNKVLLTVTTVFTEIQIQIKENLCMLSSIKLKDKKHISILEGTWMTPIPIIALK 566
EAGLNIFPTRHSHFYVIINNKPVLVEVKAYRQMAALLSSAFAGWSKWNLLCNSTKVVF 624
KVREHLTEECTENPNWALLMFGDRAQLRKIKEESEAFSEALKEETEFHSTLYHMKVD 682
FASEEAMEKVRSSNCQFVNSVCHMLLSTRLLSYS      716

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(57) Abstract: Methods are provided relating to the identification and treatment of cancers that involve altered expression of the Lung Adenoma Susceptibility-1 Gene (Las1) gene and/or its product, the Las1 protein.